



# **Near Real-Time Crash Data During Highway Reconstruction (I-235 through Des Moines)**

2003 Traffic Records Forum  
Denver, CO  
July 16, 2003

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# I-235 Reconstruction

- ⇒ Currently reconstructing ramps and bridges
  - Mainline traffic not diverted
  - Paths to downtown Des Moines affected  
(bridge implosions, ramp closings, traffic diversions)
- ⇒ Mainline begins next year (in stages)
  - Mainline traffic diversion → arterials
- ⇒ TMC not fully functional or equipped

# I-235 Area

Johnston

Urbandale

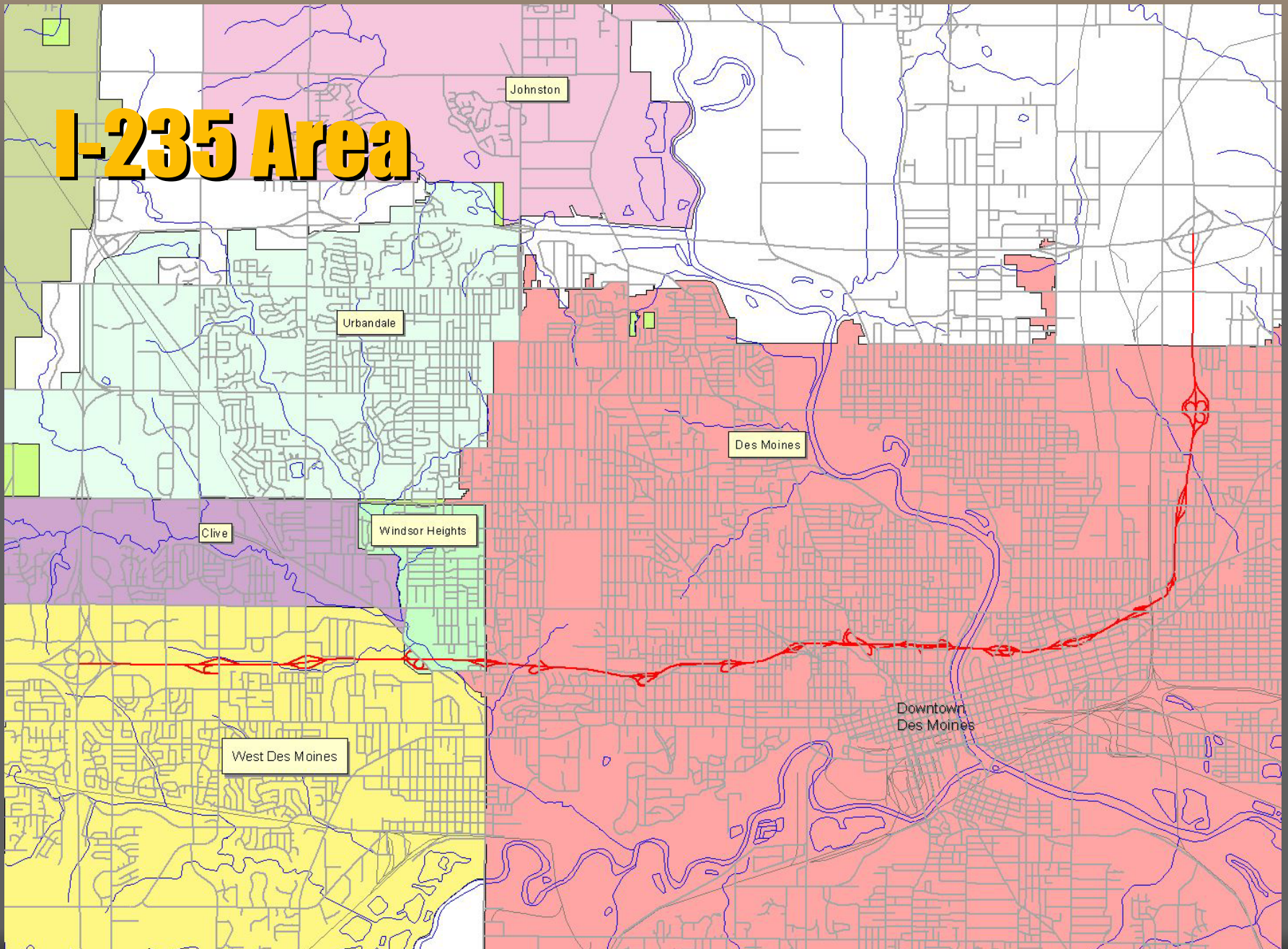
Des Moines

Clive

Windsor Heights

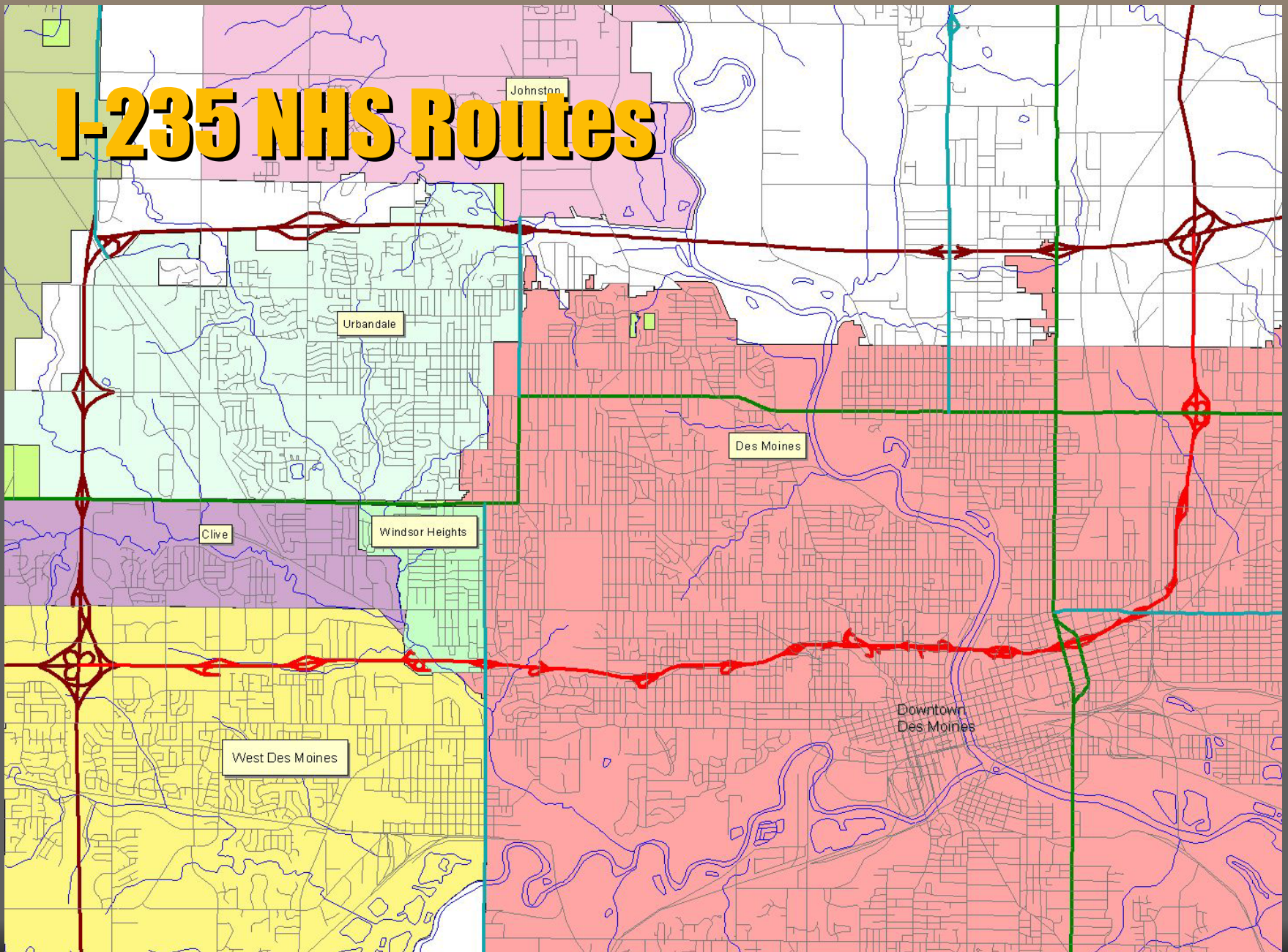
West Des Moines

Downtown  
Des Moines





# I-235 NHS Routes



# Crash Data Collection

⇒ TraCS used along corridor

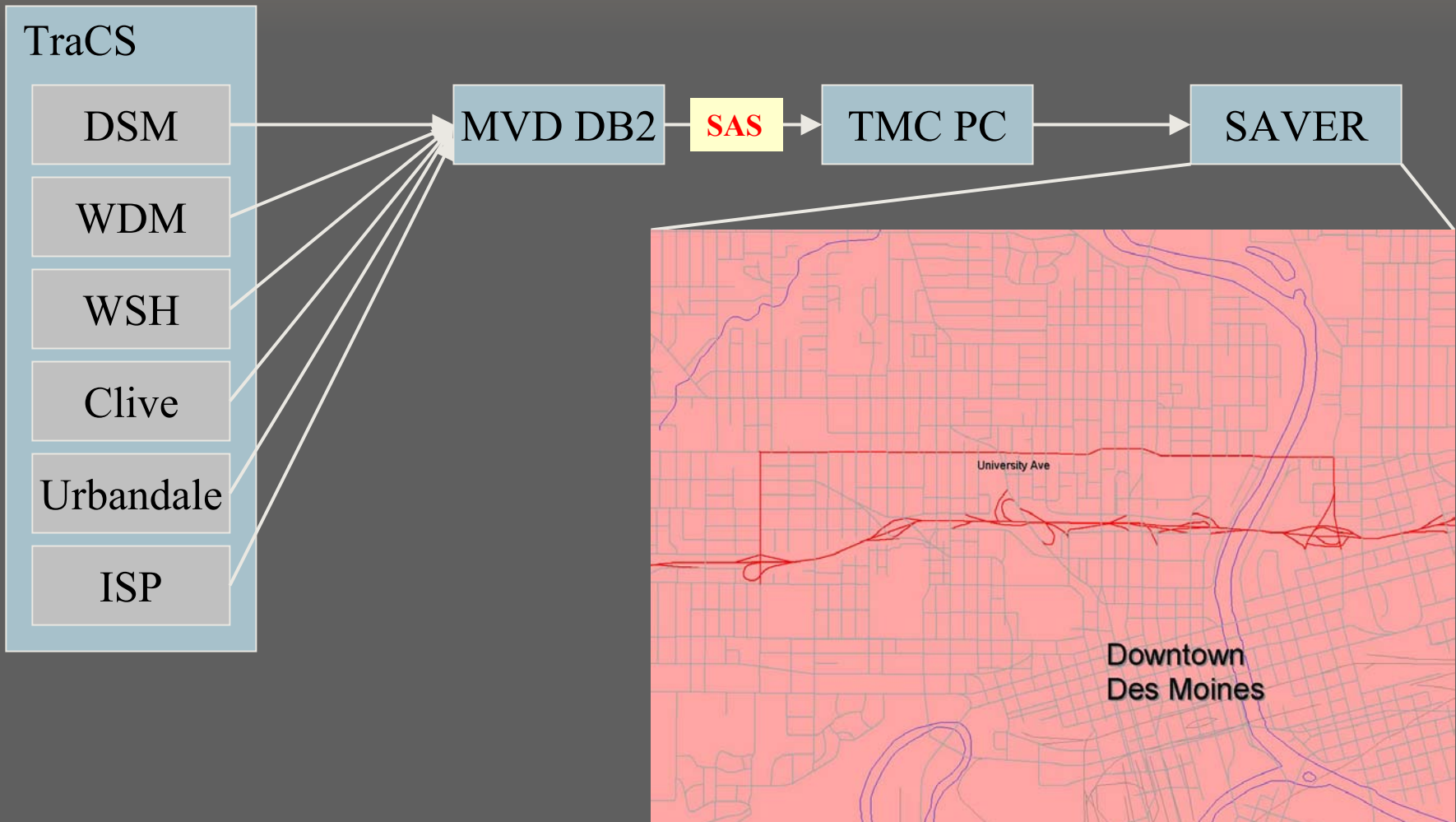
- Des Moines, West Des Moines, Clive, Urbandale, Windsor Heights, State Patrol

⇒ Daily transmission → DOT MVD → DB2

# I-235 Project Team Desires

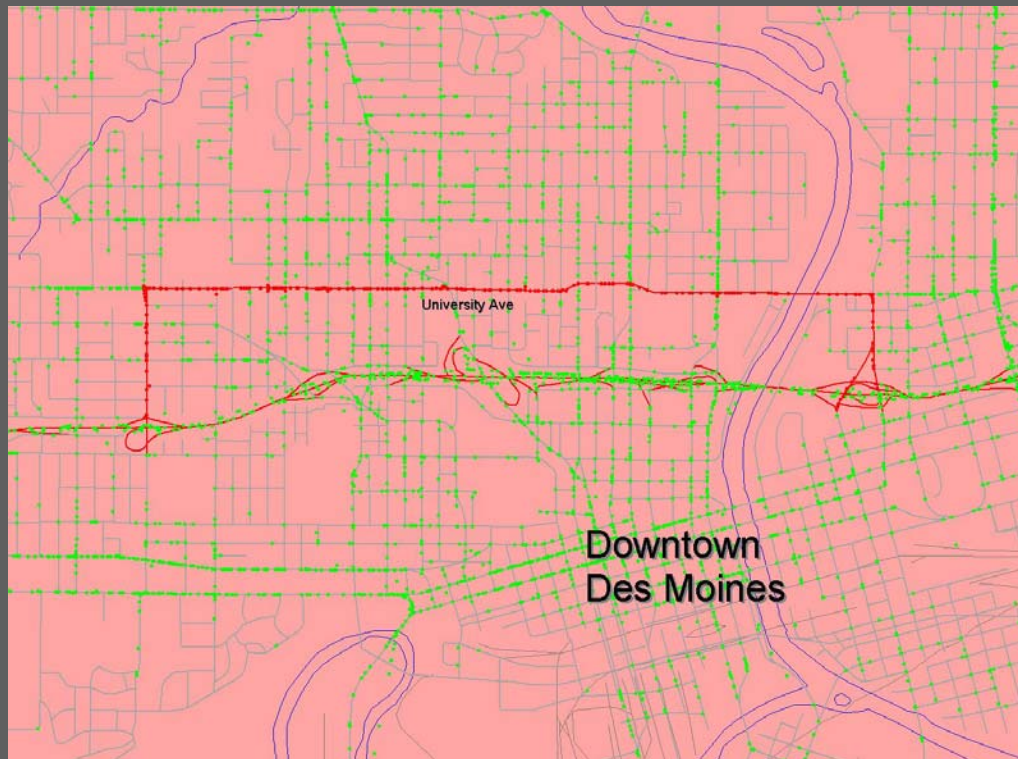
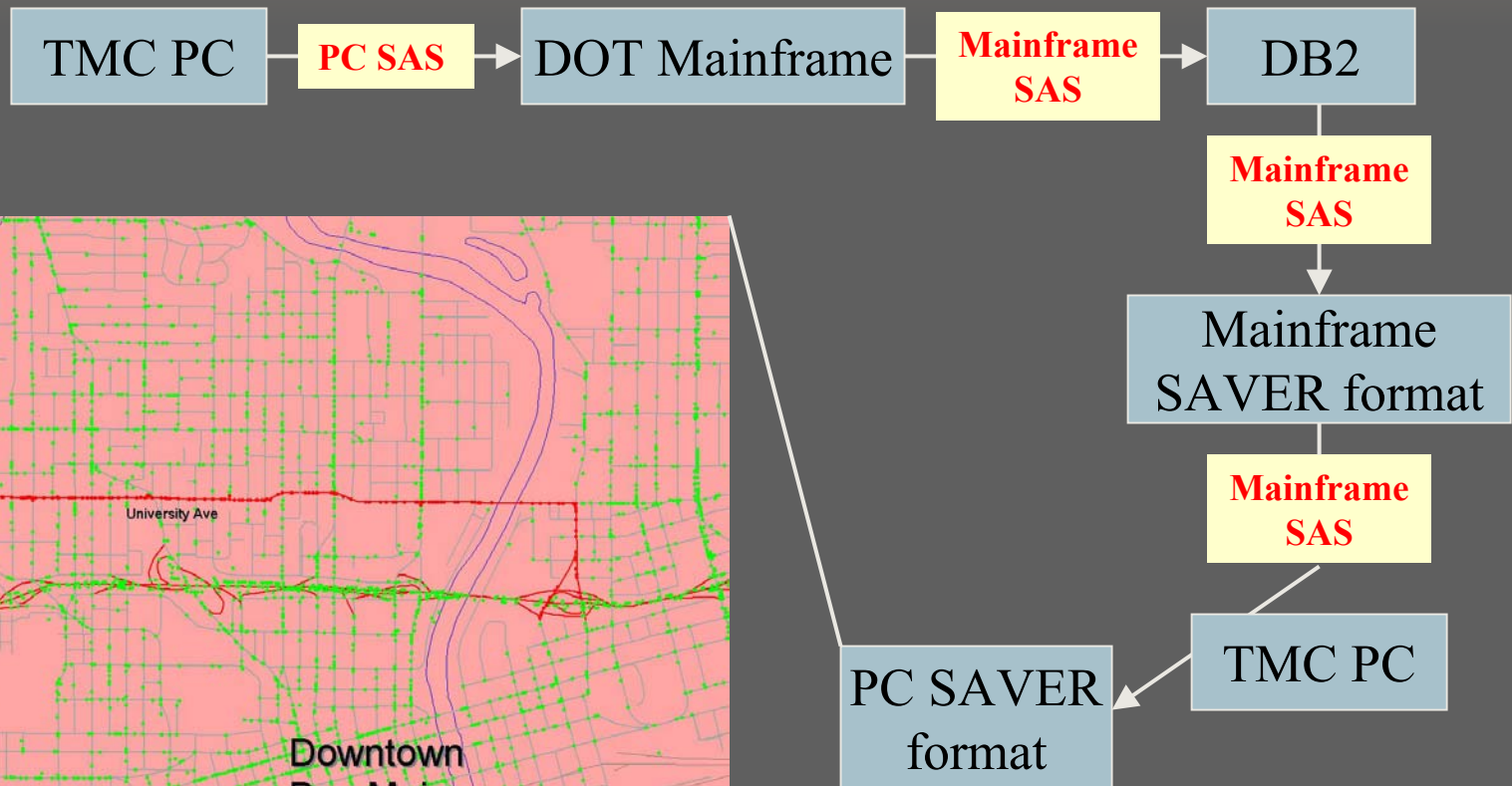
- ⇒ Real-time (weekly) assessment of impacts
  - Traffic
  - Safety
- ⇒ Initial: All reports on paper → TMC
- ⇒ w/ TraCS → DB2, electronic transfer available
  - TraCS → DB2 → TMC

# Solution





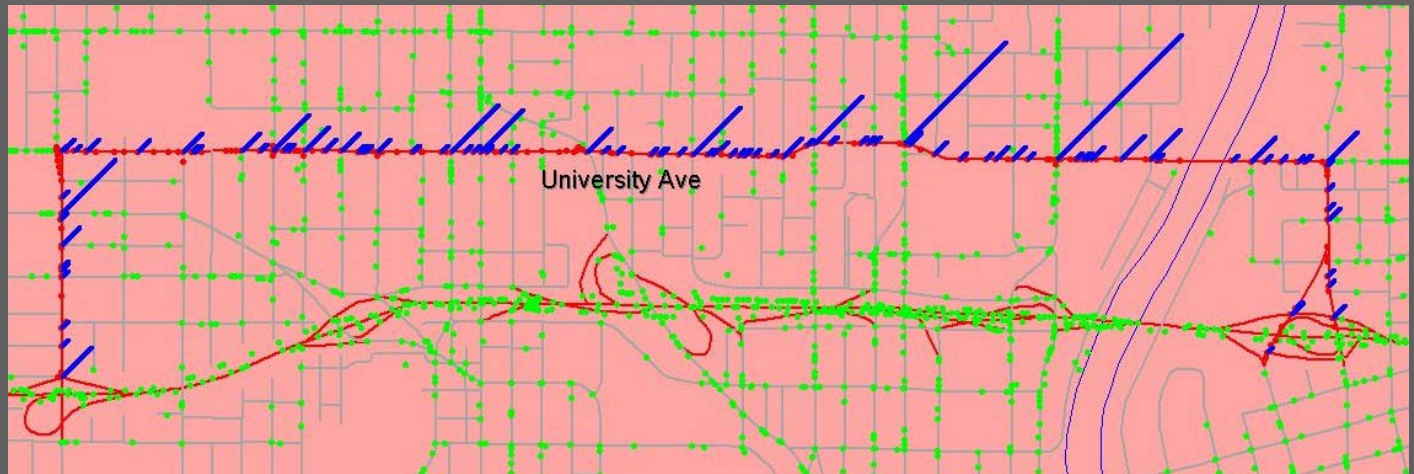
# DB2 → PC



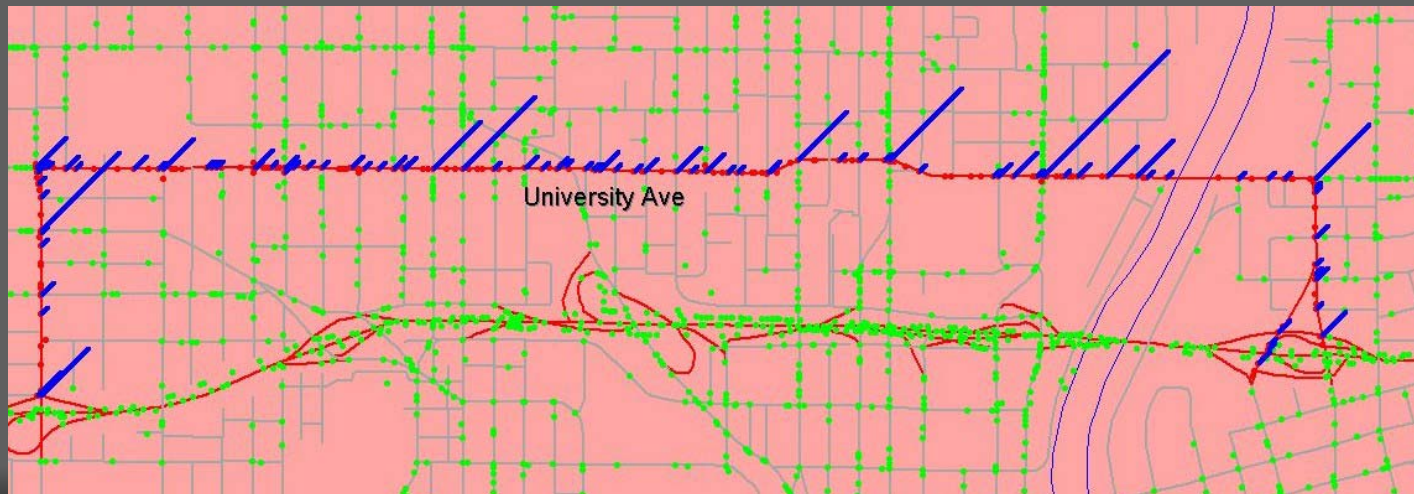


# Comparison Maps - Total

Before

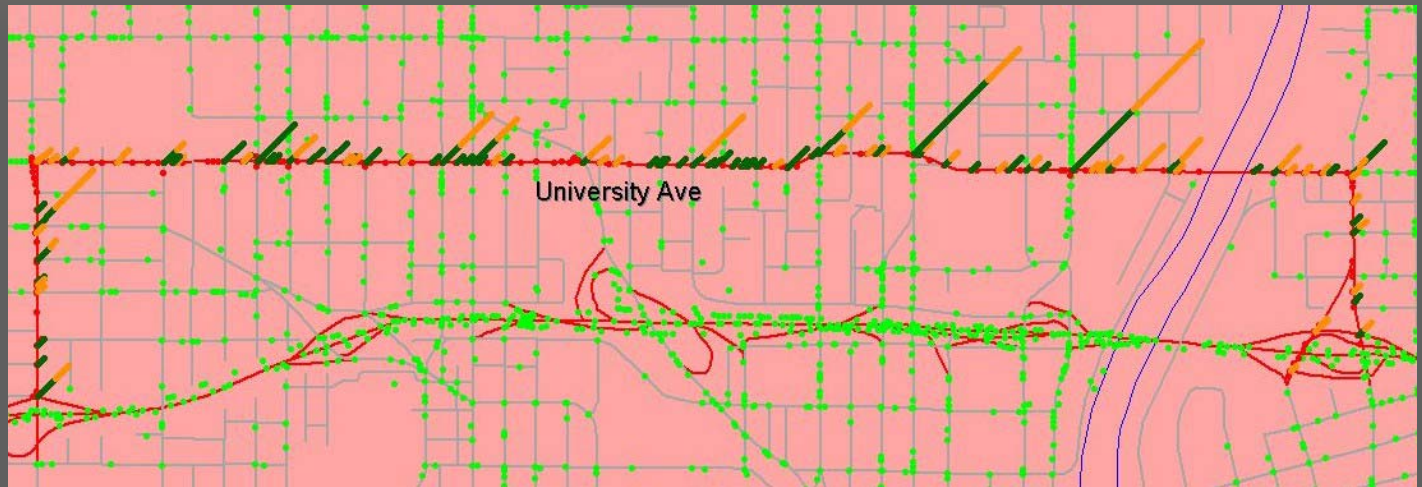


After

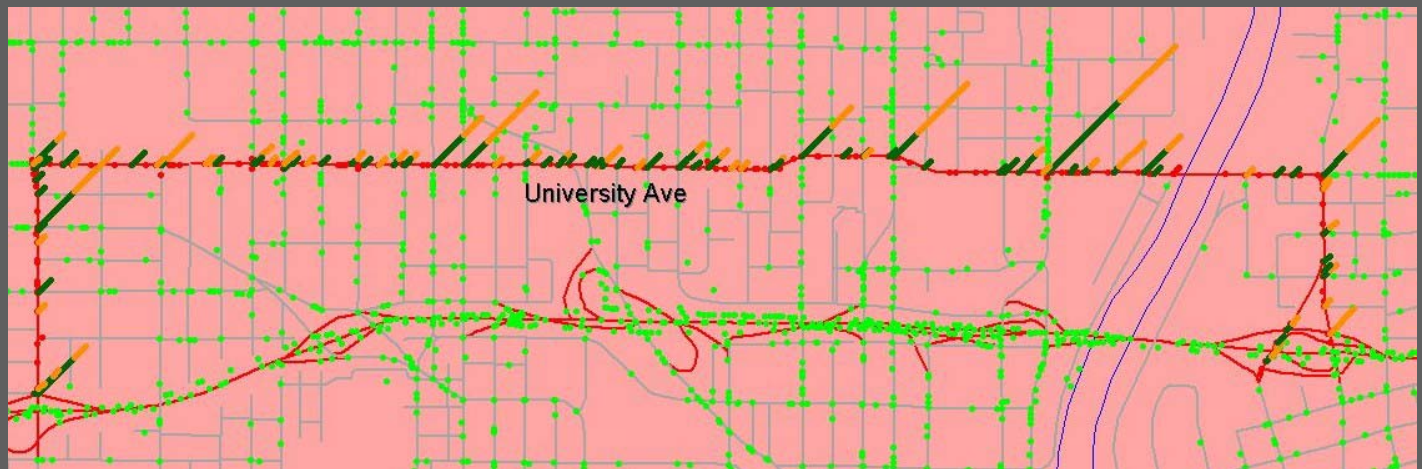


# Comparison Maps - Severity

Before



After



# TMC Needs

- ⇒ Computer
- ⇒ SAS → ~ \$1000-\$1500
- ⇒ ArcView 3.3 → ~ \$1200
- ⇒ SAVER → no cost

# Beyond TMC

- ⇒ DOT-wide → Districts via DOT LAN (monthly)
- ⇒ ISP → Central + ISP LAN (monthly?)
- ⇒ Outside DOT → CDs (quarterly)